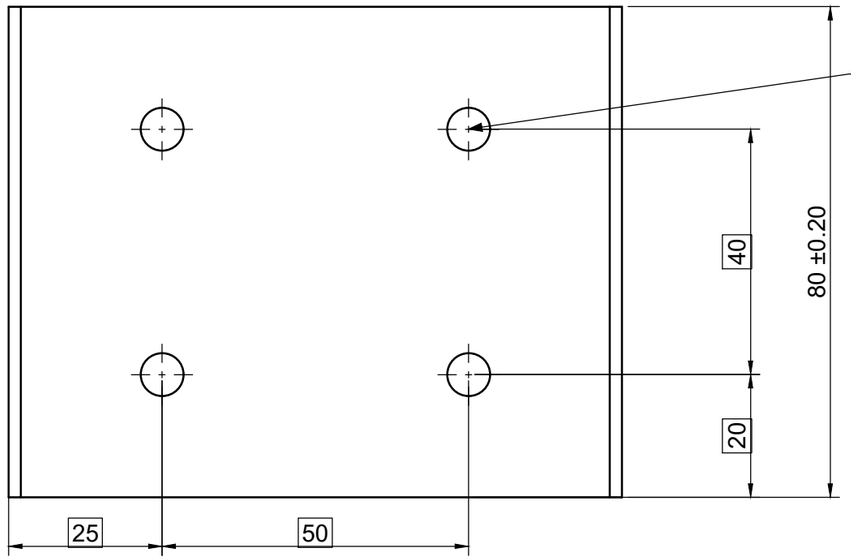
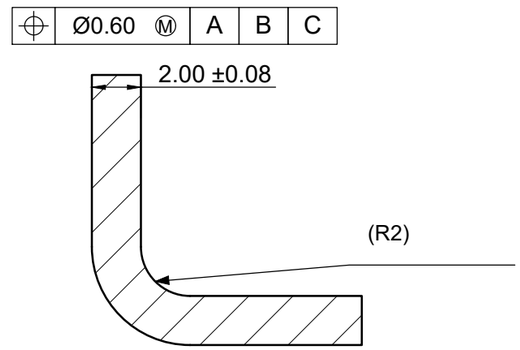
MB01-001 / FORMED PART

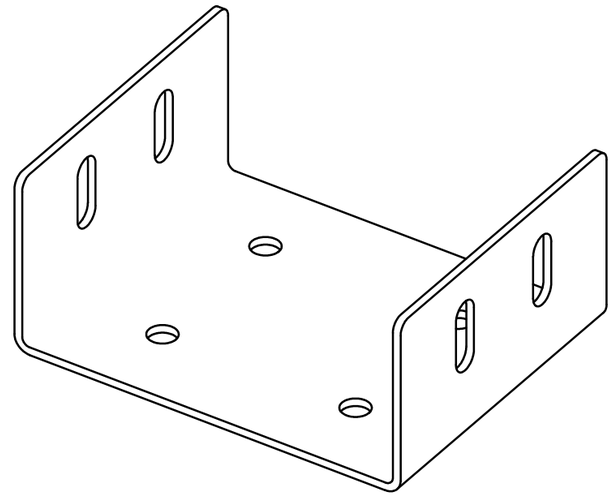
REV	DATE	DESCRIPTION
A	2026-09-11	INITIAL PORTFOLIO ISSUE
		STATUS: DESIGN STUDY

TOP VIEW / 1:1

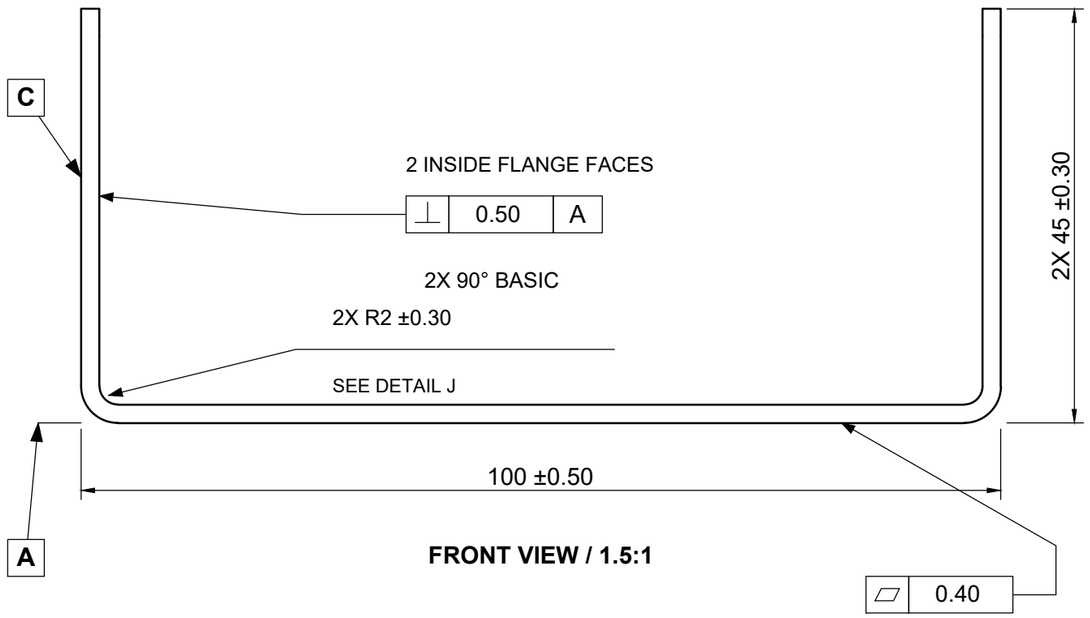




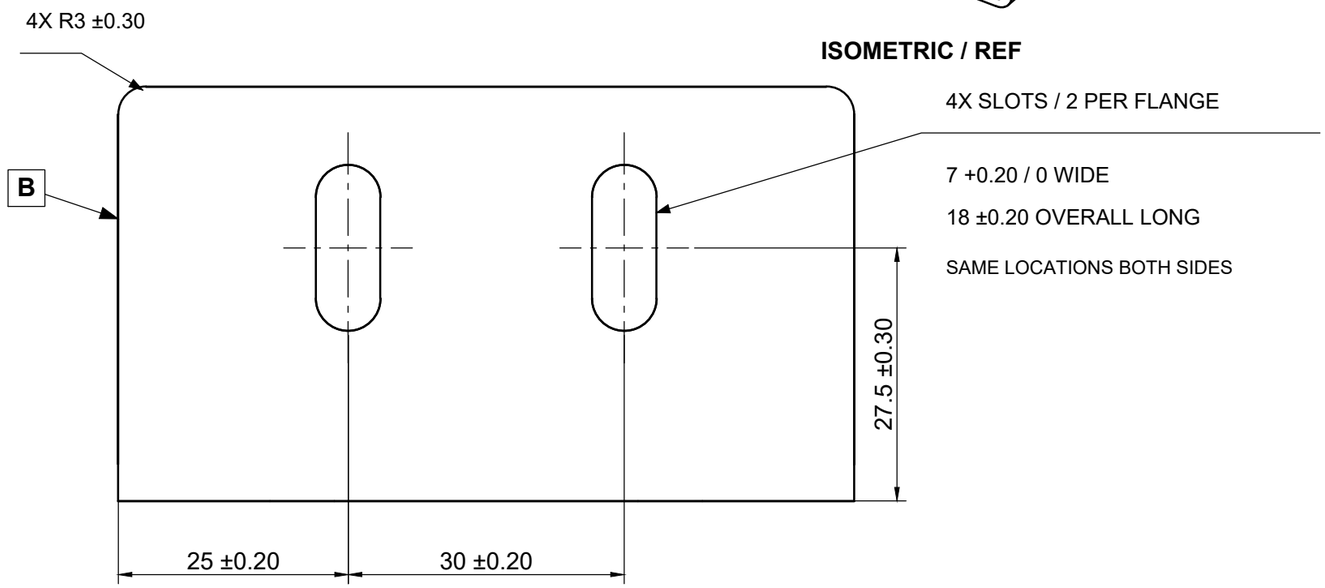
DETAIL J / 4:1



ISOMETRIC / REF



FRONT VIEW / 1.5:1



RIGHT VIEW / 1.5:1

FABRICATION NOTES

1. mm. GD&T: ASME Y14.5-2018. INSPECT FORMED PART FREE STATE.
2. MATERIAL: 5052-H32 SHEET, 2.00 ±0.08 THICK. NO COATING.
3. UNLESS SPECIFIED: LINEAR ±0.20; ANGULAR ±1°. BOXED = BASIC.
4. REMOVE BURRS; BREAK SHARP EDGES 0.1-0.2. RETAIN MILL FINISH.
5. FORM TWO BENDS UP. NO CRACKS AT BENDS. SEE SHEET 2.
6. FORMED REQUIREMENTS CONTROL. CONFIRM FLAT WITH BEND TRIAL.
7. A = BASE UNDERSIDE; B = FRONT CUT END; C = LEFT OUTSIDE FACE.

THIRD ANGLE

RAMIN / MECHANICAL DESIGN PORTFOLIO

FORMED MOUNTING BRACKET

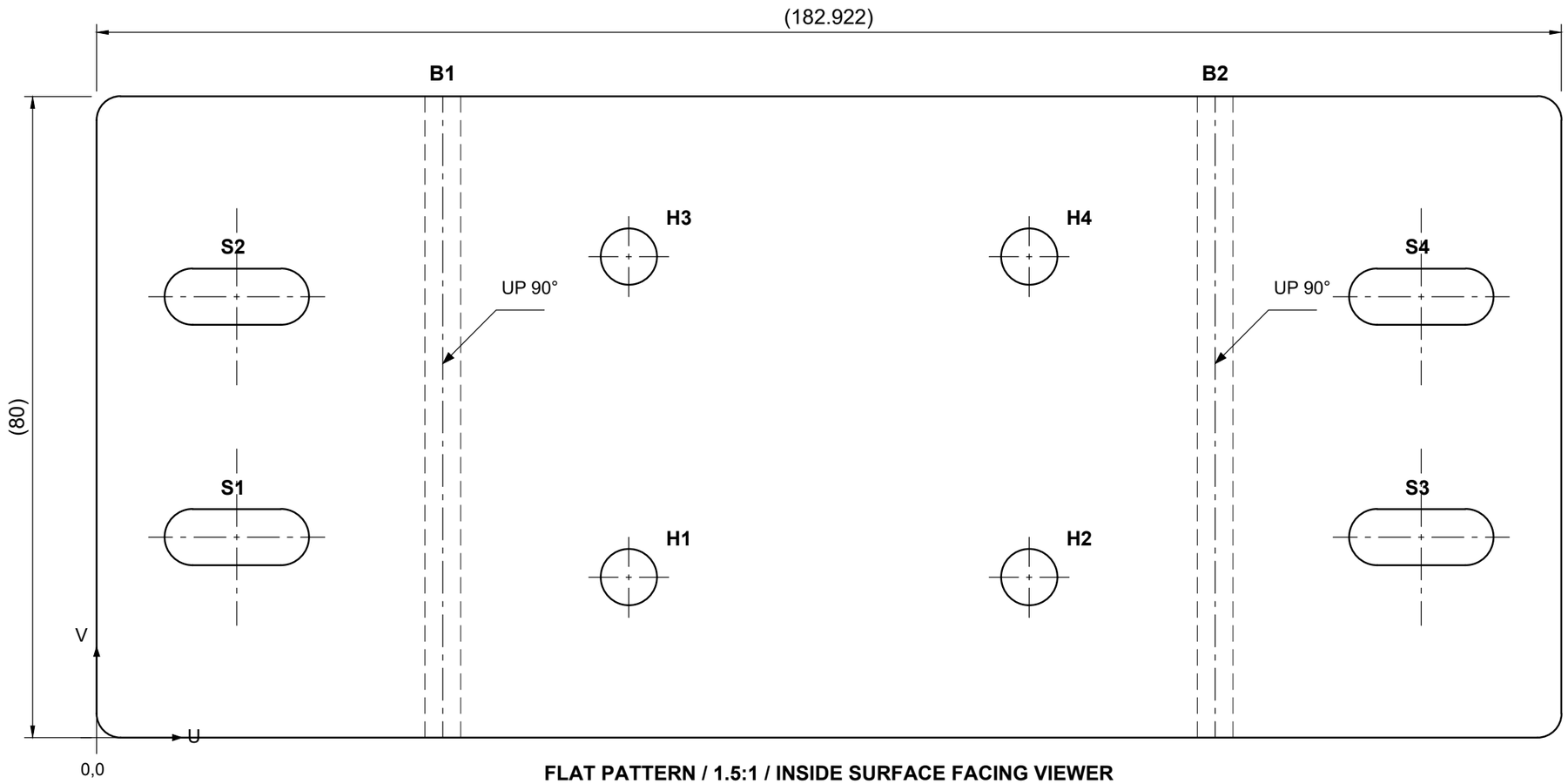
DRAWING No.	SHEET CONTENT
MB01-001	FORMED PART

MATERIAL: 5052-H32 ALUMINUM, t = 2.00

UNITS	SCALE	SIZE	REV	SHEET
mm	**AS SHOWN**	**A3**	**A**	**1 / 2**

MB01-001 / FLAT AND BENDS

REV	DATE	DESCRIPTION
A	2026-09-11	INITIAL PORTFOLIO ISSUE
		STATUS: DESIGN STUDY



FLAT PATTERN / 1.5:1 / INSIDE SURFACE FACING VIEWER

DEVELOPMENT INPUTS

t = 2.00 mm

Ri = 2.00 mm

K = 0.420 ASSUMED

BEND ANGLE = 90°

BA = 4.461 mm / BEND

BD = 3.539 mm / BEND

LINES IN FLAT VIEW

BEND CENTER

TANGENT / REF

CUT EDGE

ROLLING DIRECTION

PARALLEL TO U

FLAT FEATURE CENTERS / PROCESS NOMINALS

SIZE TOLERANCES AND FORMED LOCATIONS: SHEET 1.

ID	FEATURE	U (mm)	V (mm)
H1	Ø7	66.461	20.000
H2	Ø7	116.461	20.000
H3	Ø7	66.461	60.000
H4	Ø7	116.461	60.000
S1	7 × 18	17.500	25.000
S2	7 × 18	17.500	55.000
S3	7 × 18	165.422	25.000
S4	7 × 18	165.422	55.000

ORIGIN = THEORETICAL SHARP CORNER. ROUNDED VALUES SHOWN.

ID	U (mm)	ANGLE	Ri	DIR.	SEQ.
B1	43.231	90°	2.00	UP	1
B2	139.692	90°	2.00	UP	2

FULL-WIDTH BENDS: V = 0 TO 80. TANGENTS ARE REFERENCE.

FLAT DIMENSIONS ARE NOMINAL; ADJUST TO MEET SHEET 1.

CUT-ONLY DXF HAS NO BEND LINES. VALIDATE TOOLING FIRST.

RAMIN / MECHANICAL DESIGN PORTFOLIO

FORMED MOUNTING BRACKET

DRAWING No.	SHEET CONTENT
MB01-001	FLAT AND BENDS

MATERIAL: 5052-H32 ALUMINUM, t = 2.00

UNITS	SCALE	SIZE	REV	SHEET
mm	**AS SHOWN**	**A3**	**A**	**2 / 2**